

Form PTO-1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
941004(EPIJUSC1X)SERIAL NO.  
~~100327~~ 09/30/2009INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTAPPLICANT  
ADRIAN P. WISE ET ALFILING DATE  
MARCH 7, 1995GROUP  
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## U.S. PATENT DOCUMENTS

Technology Center 2100

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	AA	3875391	04/01/75	SHAPIRO ET AL	235	156	11/02/73
JH	AB	4225920	09/30/80	STOKES	364	200	09/11/78
JH	AC	4228497	10/14/80	GUPTA ET AL	364	200	11/17/77
JH	AD	4307447	12/22/81	PROVANZANO ET AL	364	200	06/19/79
JH	AE	4467409	08/21/84	POTASH ET AL	364	200	08/05/80
JH	AF	4617657	10/14/86	DRYAN ET AL	370	60	12/31/84
JH	AG	4710866	12/01/87	ZOLNOWSKY ET AL	364	200	10/07/86
JH	AH	4809159	02/23/89	SOWA	364	200	01/21/88
JH	AI	4811214	03/07/89	NOSENCHUCK ET AL	364	200	11/14/86
JH	AJ	4811413	03/07/89	KIMMEL	382	41	10/22/87
JH	AK	4841436	06/20/89	ASANO ET AL	364	200	05/30/86
JH	AL	4855947	08/03/89	ZYNSLOWSKI ET AL	364	200	05/27/87
JH	AM	4922418	05/01/90	DOLECEK	364	200	01/15/83
JH	AN	4953082	08/23/90	NOMURA ET AL	364	200	02/15/89
JH	AO	4989138	01/29/91	RADOCHONSKI	364	200	05/14/90
JH	AP	5043880	08/27/91	YOSHIDA	364	200	01/23/89
JH	AQ	5184347	02/02/93	Farwell et al.	370	94.1	07/09/91
JH	AR	5203003	04/13/93	DONNER	395	800	03/29/91
JH	AS	5218436	06/08/93	SUGIYAMA ET AL	358	141	01/23/91
JH	AT	5227863	07/13/93	Bilbrey et al.	348	578	08/07/90
JH	AU	5297263	03/22/94	OHTSUKA ET AL	395	375	04/17/92
JH	AV	5301344	04/05/94	KOLCHINSKY	395	800	01/29/91

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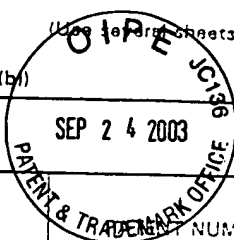
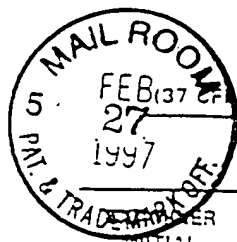
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	Technology Center 2100		FILING DATE IF APPROPRIATE
					CLASS	SUBCLASS	
JH	AW	5309563	05/03/94	FARRAND ET AL	395	200	09/09/91
JH	AX	5329313	07/12/94	KEITH	348	422	10/01/93
JH	AY	5329619	07/12/94	PAGE ET AL	395	200	10/30/92
JH	AZ	5333212	07/26/94	LIGTENBERG	382	56	11/17/92
JH	BA	5333266	07/26/94	BOAZ ET AL	395	200	03/27/92
JH	BB	5341371	08/23/94	SIMPSON	370	85.4	05/24/91
JH	BC	5406279	04/11/95	ANDERSON ET AL	341	51	09/02/92
JH	BD	5414813	05/09/95	SHIOBARA	395	200	11/01/93
JH	BE	5442790	08/15/95	NOSENCHUCK	395	700	03/09/94
JH	BF	5446866	08/29/95	DRAKO ET AL	395	500	01/30/92
JH	BG	5450599	09/12/95	HORVATH ET AL	395	800	06/04/92
JH	BH	5452006	09/19/95	AULD	348	390	10/25/93
JH	BI	5461679	10/24/95	NORMILE ET AL	395	650	05/14/93
JH	BJ	5481685	01/02/96	STAMM ET AL	395	412	08/13/93
JH	BK	5487064	01/23/96	GALAND ET AL	370	60	05/31/94
JH	BL	5490247	02/06/96	TUNG ET AL	395	162	11/24/93
JH	BM	5497498	03/05/96	TAYLOR	395	800	09/28/93
JH	BN	5504869	04/02/96	UCHIDA	395	375	07/15/94
JH	BO	5535290	07/09/96	Allen	382	250	09/11/95
JH	BP	5566089	10/15/96	HOOGENBOOM	364	514A	10/25/94
JH	BQ	5579052	11/25/96	Artieri	348	416	05/24/94

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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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Technology Center 2100

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES   NO
JH	P01	0618723	05.10.94	EP			
JH	P02	9425935	11/10/94	WO	G06K	15.00	NO

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

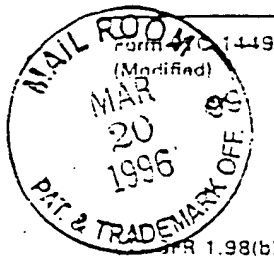
EXAMINER INITIAL		DOCUMENT IDENTIFICATION
JH	P01	ELLIOTT J A ET AL: "REAL-TIME SIMULATION OF VIDEOPHONE IMAGE CODING ALGORITHMS ON RECONFIGURABLE MULTICOMPUTERS." IEEE PROCEEDINGS E. COMPUTERS & DIGITAL TECHNIQUES. VOL. 139, NO. 3 PART E, 05/01/92, PP 269-279, XP0000306411.
JH	P02	HONG, YANG-CHANG; T.H. PAYNE. A HYBRID APPROACH FOR EFFICIENT DATAFLOW COMPUTING. COMPUTERS AND COMMUNICATIONS, 1990 INT'L PHOENIX CONFERENCE. IEEE PUBLICATIONS, MAY 1990 PP 170-179.
JH	P03	KAORU, UCHIDA ET AL: "A PIPELINED DATAFLOW PROCESSOR ARCHITECTURE BASED ON A VARIABLE LENGTH TOKEN CONCEPT." ARCHITECTURE, UNIVERSITY PARK, AUG. 15 - 19, 1988, VOL. 1, 15 AUGUST 1988, BRIGGS F A, PP 209-216, XP000079309.
JH	P04	KOPET, TOM: "PROGRAMMABLE ARCHITECTURES FOR REAL-TIME VIDEO COMPRESSION," 4TH INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING APPLICATIONS & TECHNOLOGY, VOL. 2, 09/29/93 - 10/01/93, SANTA CLARA, CALIFORNIA, USA, PP 1031-1038.
JH	P05	MAYER, A.C.: "THE ARCHITECTURE OF A SINGLE-CHIP PROCESSOR ARRAY FOR VIDEOCOMPRESSION," PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS, ROSEMONT, JUNE 8-10, 1993, NO. CONF. 12, 08/06/93, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, PP 294-95, XP0000427624.
JH	P06	NORMILE, JAMES. DAN WRIGHT, IMAGE COMPRESSION USING COARSE GRAIN PARALLEL PROCESSING. ICASSP 1991: ACOUSTICS, SPEECH & SIGNAL PROCESSING CONFERENCE. IEEE PUBLICATIONS, JULY 1991 PP 1121-1124
JH	P07	TOKUMICHI MURAKAMI ET AL: "A DSP ARCHITECTURAL DESIGN FOR LOW BIT-RATE MOTION VIDEO CODEC," IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS, VOL. 36, NO. 10, 10/1/89, PP 1287-1274, XP000085313.
JH	P09	YANG, KUN-MIN. VLSI ARCHITECTURE DESIGN OF A VERSATILE VARIABLE LENGTH DECODING CHIP FOR REAL-TIME VIDEO CODECS, TENCON 1990 IEEE REGION 10 CONFERENCE ON COMPUTER AND COMMUNICATION..., IEEE PUBLICATIONS FEBRUARY 1990, PP 551-554.

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P000 P941C04EP1USC1CIP

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## U.S. PATENT DOCUMENTS

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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	AA 3 3 9 3 0 4 2	7/1/75	Whitman et al.	331	55	12/12/73
previously filed	AB 3 9 3 3 3 3 3	6/3/75	Belle Isle	343	472.5	5/3/74
JH	AC 4 1 0 7 7 3 0	3/15/79	Grimsdale et al.	364	521	1/25/77
JH	AD 4 1 4 2 2 0 5	2/27/79	linuma	358	13	7/19/77

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
JH	AE 0 1 9 6 9 1 1	08.10.36	EP				
JH	AF 0 2 5 5 7 6 7	10.02.38	EP				
JH	AG 0 4 6 8 4 8 0	29.01.92	EP				

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

previously cited	AI	Ghong, "A Data Flow Architecture For Digital Image Processing," WesternTech. Papers No. 4/6, 10/30/84, Anaheim, California, USA, pp. 1-19
JH	AI	P. Yip, et al., "DIT and DIF Algorithm for Discrete Sine and Cosine Transforms" Proceedings of the International Symposium on Circuits and Systems, IEEE Press, New York, US, Vol. 2/3, 5 June 1985, Kyoto, JP, pages 941-944
JH	AJ	Hsieh S. Hou, "A Fast Recursive Algorithm for Computing the Discrete Cosine Transform," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 35, No. 10, October 1987, IEEE Press, New York, US, pages 1455-1461
previously cited	AK	Komori et al., "An Elastic Pipeline Mechanism By Self-Timed Circuits, IEEE Journal Of Solid State Circuits, Vol. 23, No. 1, 2/88, New York, NY, USA, pp. 111-117
JH	AL	A. Gupta et al., "A Fast Recursive Algorithm for the Discrete Sine Transform," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 38, No. 3, March 1990, IEEE Press, New York, US, pages 553-557
JH	AM	H.R. Wu, et al., "A Two Dimensional Fast Cosine Transform Algorithm Based on Hou's Approach," IEEE Transaction on Acoustics, Speech, and Signal Processing, Vol. 39, No. 2, February 1991, IEEE Press, New York, US, pages 544-546

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Wise et al.FILING DATE  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Previously filed	AN	4	4	4	5	5	4	5	4/13/79	Fire	354	266	5/16/77
JH	AO	4	1	3	5	4	4	3	4/1/80	Whitencusa et al.	358	135	5/15/78
JH	AP	4	2	1	5	3	6	9	7/29/80	Iijima	358	146	12/15/78
JH	AQ	4	3	0	2	7	7	5	11/24/81	Widengren et al.	358	136	12/15/78
JH	AR	4	3	3	4	2	4	5	5/8/82	Saran	358	261	5/16/80
JH	AS	4	4	3	3	3	0	8	2/21/84	Hirata	331	17	12/3/81
JH	AT	4	4	3	7	0	7	2	3/13/84	Asami	331	1A	9/21/82
JH	AU	4	4	9	5	6	2	9	1/22/85	Zasio et al.	377	70	1/25/83
JH	AV	4	5	4	0	9	0	3	9/10/85	Cooke et al.	307	465	10/17/83

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER							PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
JH	AW	✓	0	5	7	2	2	6	2	01.12.93	EP			
JH	AX	✓	0	5	7	2	2	6	3	01.12.93	EP			
JH	AY	✓	0	5	7	6	7	4	9	05.01.94	EP			
JH	AZ	✓	0	5	8	9	7	3	4	30.03.94	EP		X	
JH	BA	✓	0	6	3	9	0	3	2	15.02.95	EP			
JH	BB	✓	2	0	4	5	0	3	5	22.10.80	GB			
JH	BC	✓	2	0	5	9	7	2	4	23.04.81	GB			
JH	BD	✓	2	1	7	1	5	7	8	28.08.86	GB			
JH	BE	✓	2	1	9	4	0	3	5	24.02.88	GB			

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

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*[Signature]*

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
2000 P941004(EPIUSC1CIP)

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Sa et al.

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	BI	4	5	3	0	0	6	6		4/1/86	Berndt	307	276	3/22/84
JH	BJ	4	6	3	0	1	9	3		12/16/86	I Yuan	364	200	2/21/84
JH	BK	4	6	4	6	1	5	1		2/24/87	Welles II et al.	358	149	2/1/85
JH	BL	4	6	7	9	1	6	3		7/7/87	Arnould et al.	364	725	3/8/85
JH	BM	4	7	4	7	0	7	0		5/24/88	Trottier et al.	364	900	1/9/84
JH	BN	4	7	8	5	3	4	9		11/15/88	Kaith et al.	358	136	10/5/87
previously filed	BO	4	7	8	9	9	3	7		12/6/88	Hannan	364	299	4/7/86
JH	BP	4	7	9	9	6	7	7		1/24/89	Frederiksen	273	1E	2/24/86
previously filed	BQ	4	8	2	9	4	6	5		4/13/89	Simon et al.	358	133	11/15/87
JH	BR	4	8	2	9	4	6	5		5/9/89	Knauer et al.	364	725	6/19/86
JH	BS	4	8	3	1	4	4	0		5/16/89	Borgers et al.	358	133	3/24/88
JH	BT	4	8	6	6	5	1	0		9/12/89	Goodfellow et al.	358	13	9/30/88
previously filed	BU	4	8	6	6	6	3	7		9/12/89	Gonzales Lopez et al.	364	513	10/30/87
JH	BV	4	8	8	7	2	2	4		12/12/89	Okano et al.	364	513	8/24/87

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

UNCLASSIFIED FOREIGN PATENT APPLICATIONS															
		DOCUMENT NUMBER								PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
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芳	BW	2	2	6	8	0	3	5	22.12.93	GB					
芳	BX	2	2	6	9	0	7	0	26.01.94	GB					
	BY														
	BZ														

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	CD	4	3	9	1	7	3	4	1/2/90	Kato et al.	364	900	1/8/83
JH	CE	4	9	0	3	0	1	3	2/20/90	Wiebach et al.	341	51	7/15/86
JH	CF	4	9	1	2	5	5	3	3/27/90	Aubie et al.	364	725	6/5/87
JH	CG	4	9	2	2	3	4	1	5/1/90	Strobach	358	136	9/25/88
JH	CH	4	9	2	4	2	9	3	5/8/90	Kitamura	358	12	9/15/88
JH	CI	4	9	2	4	3	0	3	5/9/90	Feuchtwanger	358	133	3/7/89
JH	CJ	4	9	7	5	5	9	5	12/4/90	Roberts et al.	307	272.2	7/20/83
JH	CK	4	9	9	1	1	1	2	2/5/91	Callemyn	364	518	12/21/88
JH	CL	5	0	0	3	2	0	4	3/25/91	Cushing et al.	307	465	12/19/89
JH	CM	5	0	2	7	2	1	2	6/25/91	Marlton et al.	358	183	12/6/89
JH	CN	5	0	3	8	2	0	9	8/6/91	Hang	358	136	8/6/91
JH	CO	5	0	5	3	9	8	5	10/1/91	Friedlander et al.	364	725	10/19/89
JH	CP	5	0	5	7	7	9	3	10/15/91	Cowley et al.	331	1A	10/29/90
JH	CQ	5	0	6	0	2	4	2	10/22/91	Arbeiter	375	122	2/24/89
JH	CR	5	0	8	1	4	5	0	1/14/92	Lucas et al.	340	729	3/9/90
JH	CS	5	0	8	5	4	3	9	2/4/92	Shimura	382	56	7/3/91

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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													YES	NO
	CT													
	CU													
	CV													

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

	CW	
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*John K. Smith*

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Wise et al.

FILING DATE  
03/07/95

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	CZ	5	0	9	1	7	2	1	2/25/92	Hamori	340	727	12/22/83
JH	DA	5	1	0	7	3	4	5	4/21/92	Lae	353	432	5/29/91
JH	DB	5	1	1	1	2	9	2	5/5/92	Kuriacose et al.	353	133	2/27/91
JH	DC	5	1	1	3	2	5	5	5/12/92	Nagata et al.	353	136	5/11/90
JH	DD	5	1	2	2	3	7	3	6/16/92	Golin	353	133	2/19/91
JH	DE	5	1	2	2	3	7	5	6/16/92	Raychaudhuri et al.	353	133	2/27/91
JH	DF	5	1	2	4	7	9	0	6/23/92	Nakayama	353	133	2/20/90
JH	DG	5	1	2	6	3	4	2	6/30/92	Andrews et al.	353	133	12/26/90
previously filed	EH	5	1	2	9	9	5	9	7/7/92	Hannan	395	436	1/23/91
JH	DI	5	1	3	0	5	6	8	7/14/92	Miller et al.	307	272.2	11/5/90
JH	DJ	5	1	3	4	4	8	7	7/29/92	Taguchi et al.	353	209	11/5/90
JH	DK	5	1	3	4	6	9	7	7/29/92	Scheffler	395	425	12/10/90
JH	DL	5	1	3	6	3	7	1	8/4/92	Savatier et al.	353	133	3/15/90
JH	DM	5	1	4	2	3	3	0	8/25/92	Sakagami et al.	353	432	10/18/90
JH	DN	5	1	4	6	3	2	5	9/8/92	Ng	353	135	4/29/91
JH	DO	5	1	4	5	3	2	6	9/8/92	Hasagawa	353	135	11/13/90

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
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	DP							
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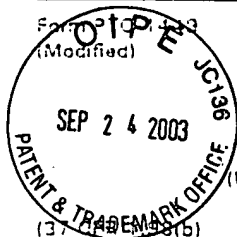
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Wise et al.FILING DATE  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	DV	5	1	4	3	2	7	1		9/15/92	Kato et al.	358	133	4/17/91
JH	DW	5	1	4	3	5	2	4		9/15/92	Harlin et al.	395	166	11/29/88
JH	DX	5	1	5	1	3	7	5		9/29/92	Sato	364	794	10/2/91
JH	DY	5	1	5	9	4	4	3		10/27/92	Allmendinger	358	136	12/26/91
JH	DZ	5	1	6	4	3	1	9		11/17/92	Music	358	13	4/3/91
JH	EA	5	1	6	3	3	5	6		12/1/92	Acampoora et al.	358	133	12/20/91
JH	EB	5	1	6	3	3	7	5		12/1/92	Reisch et al.	358	432	9/18/91
JH	EC	5	1	7	2	0	1	1		12/15/92	Lauthold et al.	307	272.2	6/30/89
JH	ED	5	1	7	5	6	1	7		12/29/92	Wallace et al.	358	133	12/4/91
JH	EE	5	1	7	9	3	7	2		1/12/93	West et al.	340	799	3/23/91
JH	EF	5	1	8	2	6	4	2		1/26/93	Garsdorff et al.	358	133	4/19/91
JH	EG	5	1	8	4	1	2	4		2/2/93	Molpus et al.	341	50	1/2/91
JH	EH	5	1	8	5	8	1	9		2/9/93	Ng et al.	382	56	4/29/91
JH	EI	5	1	8	9	5	2	5		2/23/93	Sasson	358	432	9/21/90
JH	EJ	5	1	9	1	5	4	8		3/2/93	Balkanski et al.	364	725	1/3/92
JH	EK	5	1	9	3	0	0	2		3/9/93	Guichard et al.	358	133	3/25/91
JH	EL	5	2	0	1	0	5	6		4/6/93	Daniel et al.	395	800	5/2/90

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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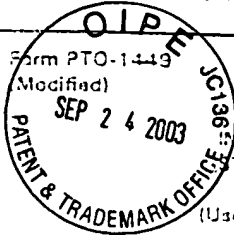
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	ER	5	2	0	2	3	4	7	4/13/93	Bolton et al.	364	725	7/31/90
JH	ES	5	2	1	2	5	4	9	5/13/93	Ng et al.	352	135	6/16/92
JH	ET	5	2	1	2	7	4	2	5/13/93	Normile et al.	382	56	5/24/91
JH	EU	5	2	1	4	5	0	7	5/25/93	Aravind et al.	353	133	11/8/91
JH	EV	5	2	1	6	7	2	4	6/1/93	Suzuki et al.	382	7	3/23/92
JH	EW	5	2	2	3	9	2	5	6/29/93	Stone et al.	353	133	12/19/91
JH	EX	5	2	2	7	8	7	3	7/13/93	Puri et al.	353	136	11/15/91
JH	EY	5	2	2	3	0	9	3	7/13/93	Grinnon et al.	382	56	6/14/91
JH	EZ	5	2	2	9	3	6	3	7/20/93	Kao et al.	353	425	12/24/90
JH	FA	5	2	3	1	4	3	4	7/27/93	Gonzales et al.	353	133	11/8/91
JH	FB	5	2	3	1	4	3	6	7/27/93	Acampora et al.	353	133	7/27/92
JH	FC	5	2	3	3	4	2	0	8/3/93	Piri et al.	353	149	4/10/85
JH	FD	5	2	3	3	6	9	0	8/3/93	Sherlock et al.	395	165	7/29/89
JH	FE	5	2	3	7	4	1	2	8/17/93	Israelsen et al.	353	160	11/19/91
JH	FF	5	2	4	1	2	2	2	8/31/93	Small et al.	307	449	12/20/91
JH	FG	5	2	4	1	3	8	3	8/31/93	Chen et al.	353	136	5/13/92

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	FN	5	2	4	1	5	5	8	3/31/93	Masterson et al.	395	162	3/21/90
JH	FO	5	2	4	7	5	1	2	9/21/93	Quinard.	395	166	6/29/90
JH	FP	5	2	4	9	1	4	6	9/23/93	Uramoto et al.	364	725	3/20/92
JH	FQ	5	2	5	3	0	5	8	10/12/93	Gharavi	358	136	4/1/92
JH	FR	5	2	5	3	0	7	8	10/12/93	Balkanski et al.	358	426	3/23/90
JH	FS	5	2	5	7	2	1	3	10/25/93	Kim et al.	364	725	5/30/91
JH	FT	5	2	5	7	2	2	3	10/25/93	Dervisoglu	365	154	11/13/91
JH	FU	5	2	5	7	3	5	0	10/25/93	Howard et al.	395	162	12/13/91
JH	FV	5	2	5	8	7	2	5	11/2/93	Kinoshita	331	17	10/4/91
JH	FW	5	2	6	0	7	8	1	11/9/93	Soloff et al.	358	133	5/20/92
JH	FX	5	2	6	0	7	8	2	11/9/93	Hui	358	133	8/31/92
JH	FY	5	2	6	1	0	4	7	11/9/93	Rivshin	395	163	10/29/91
JH	FZ	5	2	6	3	1	3	6	11/16/93	DeAguiar et al.	395	164	4/30/91
JH	GA	5	2	6	7	3	3	4	11/30/93	Normille et al.	382	56	1/21/93
JH	GB	5	2	7	6	5	1	3	1/4/94	van der Wal et al.	358	136	6/10/92
JH	GC	5	2	7	6	6	8	1	1/4/94	Tobagi et al.	370	85.4	6/25/92

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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	GE													
	GF													

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## U.S. PATENT DOCUMENTS

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JH	GJ	5	2	7	6	7	8	4	1/4/94	Ohki	395	127	12/17/91
JH	GK	5	2	7	8	5	2	0	1/11/94	Parker et al.	331	1A	10/26/92
JH	GL	5	2	7	8	6	4	6	1/11/94	Civanlar et al.	358	133	3/17/93
JH	GM	5	2	7	8	6	4	7	1/11/94	Hingorani et al.	358	136	8/5/92
JH	GN	5	2	8	3	6	4	6	2/1/94	Bruder	348	415	4/9/92
JH	GO	5	2	8	7	1	7	8	2/15/94	Acampora et al.	343	384	7/6/92
JH	GP	5	2	8	7	1	9	3	2/15/94	Lin	358	261.1	6/14/91
JH	GQ	5	2	8	7	4	2	0	2/15/94	Barratt	382	56	4/8/92
previously filed	GR	5	2	8	9	2	7	6	2/22/94	Sircusa et al.	343	467	6/13/92
previously filed	GS	5	2	8	9	5	7	7	2/22/94	Gonzalez et al.	395	463	6/14/92
JH	GT	5	2	9	3	2	2	9	3/8/94	Iu	343	415	3/27/92
JH	GU	5	2	9	4	8	9	4	3/15/94	Gabara	331	1A	10/2/92
JH	GV	5	2	9	8	8	9	6	3/29/94	Lai et al.	341	51	3/15/93
JH	GW	5	2	9	8	9	9	2	3/29/94	Pietras et al.	348	415	10/8/92
JH	GX	5	2	9	9	0	2	5	3/29/94	Shirasawa	358	400	6/25/92
JH	GY	5	3	0	0	9	4	9	4/5/94	Rodriguez et al.	345	202	10/22/92

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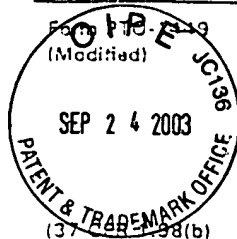
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## U.S. PATENT DOCUMENTS

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JH	HF	5	3	0	1	0	1	9	4/5/94	Citta	348	416	9/17/92
JH	HG	5	3	0	1	0	3	2	4/5/94	Hong et al.	353	261.2	12/4/92
JH	HH	5	3	0	1	0	4	0	4/5/94	Hoshi et al.	353	465	4/22/92
JH	HI	5	3	0	1	1	3	5	4/5/94	McMillan, Jr et al.	364	725	7/27/93
previously filed	HJ	5	3	0	1	1	3	5	4/5/94	Gonzalez et al.	364	725	7/27/93
JH	HK	5	3	0	1	2	7	2	4/5/94	Atkins	395	165	11/25/92
JH	HL	5	3	0	3	3	4	2	4/12/94	Edge	395	164	12/22/92
JH	HM	5	3	0	4	9	5	3	4/19/94	Haim et al.	331	1A	6/1/93
JH	HN	5	3	0	5	4	3	8	4/19/94	MacKay et al.	395	164	5/19/92
JH	HO	5	3	0	9	5	2	7	5/3/94	Ohki	382	56	1/15/92
JH	HP	5	3	1	1	3	0	9	5/10/94	Ersoz et al.	348	409	5/30/91
JH	HQ	5	3	5	1	0	4	7	9/27/94	Bahlan	341	67	9/21/92
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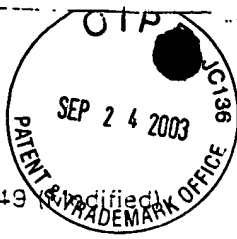
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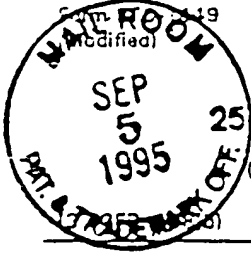
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	AA	3 9 6 2 6 8 5	6/76	Bella-Isla	340	172.5	—
JH	AB	4 1 4 9 2 4 2	4/79	Pirz	364	200	—
JH	AC	4 7 8 9 9 2 7	12/88	Hannah	364	200	—
JH	AD	4 8 2 3 2 0 1	4/18/89	Simon et al.	358	133	—
JH	AE	4 8 6 6 6 3 7	9/12/89	Gonzalez-Lopez et al	364	518	—
JH	AF	5 1 2 9 0 5 9	7/7/92	Hannah	395	166	—
JH	AG	5 2 8 9 2 7 6	2/22/94	Siracusa et al.	348	467	—
JH	AH	5 2 8 9 5 7 7	2/22/94	Gonzales et al.	395	163	—
JH	AI	5 3 0 1 2 4 2	4/5/94	Gonzales et al.	382	56	—
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	AL							
	AM							

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JH	AN	✓	Chong, "A Data Flow Architecture For Digital Image Processing," Wescon Tech. Papers No. 4/6, 10/30/84, Anaheim, California, USA, pp. 1-10
JH	AO	✓	Komori et al., "An Elastic Pipelline Mechanism By Self-Timed Circuits, IEEE Journal Of Solid-State Circuits, Vol. 23, No. 1, 2/88, New York, NY, USA, pp. 111-117
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